

M A T E R I A L S A F E T Y D A T A S H E E T

QUICK REFERENCE:

D S - 6 0



H - O - H Water Technology, Inc.
 500 South Vermont Street
 Palatine, Illinois 60067

EMERGENCY PHONE No"s

847 - 358 - 7400 (H - O - H BUSINESS Hrs.)
 800 - 424 - 9300 (CHEMTREC - 24 Hrs.)

H M I S:

4 = EXTREME
 3 = SEVERE
 2 = MODERATE
 1 = SLIGHT
 0 = INSIGNIFICANT

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

D O T:

HAZARD LABELING

IN D O T LISTED
 POLYETHYLENE
 CONTAINERS



PRODUCT IDENTIFICATION	PRODUCT NAME	CHEMICAL FAMILY	DATE	Rev. No.	SUPERSEDES	E P A - T P Q	BY
	D S - 6 0	POTABLE WATER TREATMENT	1 - 1 - 11	14	8 - 1 - 08	NA	

HAZARDOUS COMPONENTS	CHEMICAL NAME	COMMON NAME	C A S No.	PERCENT	OSHA PEL	ACGIH - TLV	OTHER

COMMENT	1. CONTAINS 30% SODIUM HEXAMETAPHOSPHATE (CAS No. 68915 - 31 - 1). 2. SODIUM HYPOCHLORITE ADDED TO RETARD BACTERIAL ACTIVITY.
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PHYSICAL DATA	BOILING POINT (Degrees Fahrenheit)	215° F	SOLUBILITY (in water)	COMPLETE	EVAPORATION RATE (water = 1.0)	1.0
	VAPOR PRESSURE (in millimeters of Mercury)	NA	SPECIFIC GRAVITY (water = 1.0)	1.280	pH	5.4
	VAPOR DENSITY (air = 1.0)	NA	PERCENT (%) VOLATILE (by volume)	NA		
	APPEARANCE and ODOR	CLEAR LIQUID WITH NO NOTICEABLE ODOR.				

FIRE AND EXPLOSION	FLASH POINT (Degrees Fahrenheit)	METHOD	FLAMMABLE LIMITS	LOWER EXPLOSIVE LIMIT	UPPER EXPLOSIVE LIMIT
	NONE	NA		NOT APPLICABLE	NOT APPLICABLE
	EXTINGUISHING MEDIA	SPECIAL FIRE FIGHTING PROCEDURES		UNUSUAL FIRE AND EXPLOSION HAZARDS	
	WATER	NONE		NONE	

REACTIVITY DATA	STABILITY	CONDITIONS TO AVOID	NONE KNOWN.
	STABLE <input checked="" type="checkbox"/> UNSTABLE <input type="checkbox"/>		
	INCOMPATIBILITY (Materials to Avoid)	NONE KNOWN.	
	HAZARDOUS DECOMPOSITION PRODUCTS	SODIUM AND PHOSPHORUS OXIDES MAY FORM WHEN HEATED TO DECOMPOSITION.	
	HAZARDOUS POLYMERIZATION MAY WILL OCCUR <input type="checkbox"/> WON'T OCCUR <input checked="" type="checkbox"/>	CONDITIONS TO AVOID	NONE KNOWN

SPECIAL PRECAUTIONS	STORAGE AND HANDLING	OTHER
	1. PROTECT CONTAINERS AGAINST PHYSICAL DAMAGE. 2. STORE IN A COOL, DARK, WELL-VENTILATED LOCATION AWAY FROM DIRECT SUNLIGHT AND OTHER SOURCES OF RADIANT HEAT. 3. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. NEVER MOVE AN OPEN OR LOOSELY CLOSED CHEMICAL CONTAINER. 4. WEAR HAND AND FOOT PROTECTION WHEN MOVING HEAVY CONTAINERS.	1. NOT TO BE TAKEN INTERNALLY. 2. NOT TO BE USED FOR OTHER THAN SPECIFIED PURPOSE. 3. KEEP AWAY FROM CHILDREN. 4. NEVER MIX THIS MATERIAL WITH ANY OTHER CHEMICAL UNLESS AT THE SPECIFIC DIRECTION OF H - O - H PERSONNEL. 5. TRIPLE RINSE EMPTY CONTAINERS BEFORE OFFERING FOR DISPOSAL OR SALVAGE. NEVER REUSE EMPTY CONTAINERS.

HEALTH HAZARD DATA	THRESHOLD LIMIT VALUE	NOT APPLICABLE Oral LD ₅₀ (Rat) 22,000 mg/kg, Practically Nontoxic.		DS-60
	ACUTE HEALTH HAZARDS		CHRONIC HEALTH HAZARDS	
	NONE KNOWN		MAY SEQUESTER CALCIUM AND CAUSE CALCIUM PHOSPHATE DEPOSITS IN THE KIDNEYS. CHRONIC INGESTION OR INHALATION MAY INDUCE SYSTEMIC PHOSPHOROUS POISONING. LIVER DAMAGE, KIDNEY DAMAGE, JAW/TOOTH ABNORMALITIES, BLOOD DISORDERS AND CARDIOVASCULAR EFFECTS CAN RESULT.	

EFFECTS OF EXPOSURE	SKIN AND EYES / TARGET ORGAN	INHALATION	INGESTION
	TISSUE IRRITATION - SLIGHT EYE CONTACT MAY CAUSE IRRITATION, REDNESS AND PAIN. DERMAL CONTACT MAY CAUSE IRRITATION WITH REDNESS.	NON - VOLATILE MAY CAUSE IRRITATION TO THE RESPIRATORY TRACT. SYMPTOMS MAY INCLUDE COUGHING AND SHORTNESS OF BREATH.	POSSIBLE IRRITANT MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT. CHRONIC EXPOSURE MAY CAUSE VOMITING, LETHARGY, DIARRHEA, BLOOD CHEMISTRY EFFECTS, HEART DISTURBANCES AND CENTRAL NERVOUS SYSTEM EFFECTS.
CONDITIONS AGGRAVATED	NONE KNOWN	NONE KNOWN	IF INGESTION OCCURS, STOMACH ULCERS OR OTHER PRE - EXISTING DIGESTIVE CONDITIONS.

EMERGENCY PROCEDURES	SKIN AND EYES	INHALATION	INGESTION
	EYES FLUSH EYES WITH WATER FOR 15 MINUTES. GET PROMPT MEDICAL ATTENTION IF IRRITATION DEVELOPS. SKIN FLUSH WITH WATER AND WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH WELL BEFORE REUSE. IF IRRITATION DEVELOPS, SEEK MEDICAL ADVICE.	NON - VOLATILE	NON - TOXIC SODIUM HEXAMETAPHOSPHATE SOLUTIONS ARE BASICALLY NON - TOXIC. IF A SIGNIFICANT QUANTITY OF THIS PRODUCT IS INGESTED AND DISTRESS OCCURS, SEEK MEDICAL ATTENTION.

CARCINOGEN LISTING	NATIONAL TOXICOLOGY PROGRAM (NTP)	I A R C MONOGRAPHS	O S H A REGULATED
	NO	NO	NO

SPILL OR LEAK PROCEDURES	SPILLS AND RELEASES	WASTE DISPOSAL METHODS
	CONTAIN SPILLED MATERIAL AND COLLECT INTO SUITABLE CONTAINER FOR POSSIBLE RECOVERY OR DISPOSAL.	CONSULT FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO WASTE DISPOSAL.

CONTROL MEASURES	EYE PROTECTION	SAFETY GLASSES.		
	RESPIRATORY PROTECTION	NOT REQUIRED		
	OTHER PROTECTIVE EQUIPMENT	NOT REQUIRED .		
	LOCAL EXHAUST	YES	SPECIAL VENTILATION	NOT REQUIRED FOR NORMAL USE.
	MECHANICAL VENTILATION	NOT REQUIRED	OTHER VENTILATION	NOT REQUIRED FOR NORMAL USE.
	PROTECTIVE GLOVES	WORK GLOVES SUGGESTED.	PROTECTIVE CLOTHING	NOT REQUIRED FOR NORMAL USE.

REFERENCES	1. <i>Threshold Limit Values For Chemical Substances And Physical Agents In The Work Environment</i> ; ACGIH, 1989. 2. <i>O S H A Safety and Health Standards</i> : 29CFR 1900 to 1910, July 1, 1988 3. <i>Fifth Annual Report on Carcinogens</i> ; U. S. Dept. of Health and Human Services, National Toxicology Program, 1989 (Summary). 4. M. Sittig, <i>Handbook of Toxic & Hazardous Chemicals</i> , (Noyes Publications, Park Ridge, N. J., 1981). 5. <i>Community Right - To - Know Manual</i> , (Thompson Publishing Group, Washington, D. C., 1990). 6. <i>Right - To - Know / Chemical Manual</i> (ILLINOIS MANUFACTURES ASSOCIATION; Rooks, Pitts, and Poust, 1990). 7. <i>Toxic and Hazardous Industrial Chemicals Safety Manual</i> (THE INTERNATIONAL TECHNICAL INFORMATION INSTITUTE, 1975). 8. M. J. Lefevre, S. A. Conibear, <i>First Aid Manual for Chemical Accidents</i> , 2nd ed. (Van Nostrand Reinhold, New York, 1989). 9. <i>Hazardous Materials Guide; Shipping, Materials Handling and Transportation</i> (J. J. KELLER & ASSOCIATES, Inc., Neenah, Wisconsin, Dec. 1990) 10. <i>Hazard Communication Guide; Federal & State Right to Know Standards</i> (J. J. KELLER & ASSOCIATES, Inc., Neenah, Wisconsin, Dec. 1990)
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REPORTABLE QUANTITY	IF MORE THAN THE INDICATED QUANTITY IS DISCHARGED TO DRAINAGE (Sewer / surface water), AIR, OR SOIL, IMMEDIATELY REPORT AS INDICATED.		
	CERCLA OR EPA (Extremely Hazardous) NATIONAL RESPONSE CENTER (800 - 424 - 8802)	STATE EMERGENCY RELEASE NOTIFICATION ILLINOIS (Only) 800 - 782 - 7860 (Consult for others)	LOCAL EMERGENCY RESPONSE AUTHORITY Record Telephone No. of Local Response Authority
WRITTEN REPORT MUST FOLLOW	NA	NA	NA